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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,953	12/04/2002	Bor-Bin Chou	OTMP0033USA	2527
27765	7590	02/26/2004	EXAMINER	
			NEILS, PEGGY A	
			ART UNIT	PAPER NUMBER
			2875	

DATE MAILED: 02/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/065,953	CHOU ET AL.
	Examiner	Art Unit
	Peggy A. Neils	2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) \_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_.

### **DETAILED ACTION**

The disclosure is objected to because of the following informalities: On page 5 of the specification, line 15, "Figure 5" is referred to, however there are only four figures in the application.

Appropriate correction is required.

Claims 1-6 objected to because of the following informalities: Various grammatical errors appear throughout the claims. They should all be amended. In particular, in Claim 1, --an-- should be inserted before "optical" and further down in the claim in line 7, "locating" should be changed to --located--. The preambles in the dependent claims need to be amended to recite --an illumination system for an optical engine--. In Claim 2, --a-- or --an-- should precede the different mentioned "air ducts". In Claim 4, "the bottom of the auxiliary air duct installed" is not grammatically correct.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al.

Yamaguchi et al shows a cooling system for an optical apparatus which includes a light source 10, an intake air duct 9, an air duct body 30 with a bottom surfaced attached to the optical unit 5 and partitions 33, 34 and 35 which can be adjustable for directing the desired amount of air flow into various portions of the optical unit 5. As shown in Figure 11, the openings 31R, 31G and 31B appear to be different sizes however the disclosure mentions they are all rectangular in shape. Obviously, to vary the size of the opening to change the amount of air flow received in a particular portion of the optical unit would be a design choice depending on the desired cooling effect. Lamp base 5 is shown having a air regulator 40 in Figure 10 which leads to the different lens structures.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fuse et al, Stadjuhar et al, Okada et al, Koga et al and Takizawa are cited on interest for showing various arrangements for ventilation of lighting devices.

Any questions regarding this Office action should be directed to Examiner Neils at (571) 272-2377.

*Y. My Quach-Lee*

**Y. MY QUACH-LEE  
PRIMARY EXAMINER**